

Style sheet `mawrtg.sty`

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References

- [1] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright. “Some theoretical properties of an augmented Lagrangian merit function”. In: *Advances in Optimization and Parallel Computing*. Ed. by P. M. Pardalos. Amsterdam, NL: North Holland, 1992, pp. 101–128.
- [2] S. P. Han. “Superlinearly convergent variable metric algorithms for general nonlinear programming problems”. In: *Math. Program.* 11 (1976), pp. 263–282.
- [3] S. P. Han. “A globally convergent method for nonlinear programming”. In: *J. Optim. Theory Appl.* 22 (1977), pp. 297–309.
- [4] M. R. Hestenes. “Multiplier and gradient methods”. In: *J. Optim. Theory Appl.* 4 (1969), pp. 303–320.
- [5] M. J. D. Powell. “A method for nonlinear constraints in minimization problems”. In: *Optimization*. Ed. by R. Fletcher. New York, NY, US: Academic Press, 1969, pp. 283–298.
- [6] M. J. D. Powell. “A fast algorithm for nonlinearly constrained optimization calculations”. In: *Numerical Analysis*. Ed. by G. A. Watson. Berlin, DE: Springer-Verlag, 1978, pp. 144–157.
- [7] M. J. D. Powell. “Algorithms for nonlinear constraints that use Lagrangian functions”. In: *Math. Program.* 14 (1978), pp. 224–248.
- [8] M. J. D. Powell. “The convergence of variable metric methods for nonlinearly constrained optimization calculations”. In: *Nonlinear Programming 3*. Ed. by O. L. Mangasarian, R. R. Meyer, and S. M. Robinson. New York, NY, US: Academic Press, 1978, pp. 27–63.
- [9] M. J. D. Powell. “A direct search optimization method that models the objective and constraint functions by linear interpolation”. In: *Advances in Optimization and Numerical Analysis*. Ed. by S. Gomez and J. P. Hennart. Dordrecht, NL: Springer-Verlag, 1994, pp. 51–67.
- [10] M. J. D. Powell. “UOBYQA: unconstrained optimization by quadratic approximation”. In: *Math. Program.* 92 (2002), pp. 555–582.
- [11] M. J. D. Powell. “Least Frobenius norm updating of quadratic models that satisfy interpolation conditions”. In: *Math. Program.* 100 (2004), pp. 183–215.
- [12] M. J. D. Powell. “On updating the inverse of a KKT matrix”. In: *Numerical Linear Algebra and Optimization*. Ed. by Y. Yuan. Beijing, CN: Science Press, 2004, pp. 56–78.
- [13] M. J. D. Powell. “The NEWUOA software for unconstrained optimization without derivatives”. In: *Large-Scale Nonlinear Optimization*. Ed. by G. Di Pillo and M. Roma. New York, NY, US: Springer-Verlag, 2006, pp. 255–297.
- [14] M. J. D. Powell. “Developments of NEWUOA for minimization without derivatives”. In: *IMA J. Numer. Anal.* 28 (2008), pp. 649–664.

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- [15] M. J. D. Powell. *The BOBYQA algorithm for bound constrained optimization without derivatives*. Tech. rep. DAMTP 2009/NA06. Cambridge, UK: Department of Applied Mathematics and Theoretical Physics, University of Cambridge, 2009.
- [16] M. J. D. Powell. “On fast trust region methods for quadratic models with linear constraints”. In: *Math. Program. Comput.* 7 (2015), pp. 237–267.
- [17] R. T. Rockafellar. “The multiplier method of Hestenes and Powell applied to convex programming”. In: *J. Optim. Theory Appl.* 12 (1969), pp. 555–562.
- [18] K. Schittkowski. “The nonlinear programming method of Wilson, Han and Powell with an augmented Lagrangian type line search function”. In: *Numer. Math.* 38 (1981), pp. 83–114.
- [19] K. Schittkowski. “On the convergence of a sequential quadratic programming method with an augmented Lagrangian line search function”. In: *Optimization* 14 (1983), pp. 197–216.
- [20] R. B. Wilson. “A simplicial algorithm for concave programming”. PhD thesis. Boston, MA, US: Harvard Business School, 1963.